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SEQUENCE LISTING

<110> LEUNG, Shui-on
HANSEN, Hans
QU, Zhengxing

<120> GLYCOSYLATED HUMANIZED B-CELL SPECIFIC ANTIBODIES

<130> 018733/1049

<140> US 09/894,839
<141> 2001-06-29

<150> US 09/155,107
<151> 1998-11-17

<150> US 60/013,709
<151> 1996-03-20

<160> 47

<170> PatentIn version 3.1

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gaa aac gtc act atg agc tgt aag tcc agt caa agt gtt tta tac agt 96
Glu Asn Val Thr Met Ser Cys Lys Ser Ser Gln Ser Val Leu Tyr Ser
20 25 30

gca aat cac aag aac tac ttg gcc tgg tac cag cag aaa cca ggg cag 144
Ala Asn His Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45

tct cct aaa ctg ctg atc tac tgg gca tcc act agg gaa tct ggt gtc 192
Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60

cct gat cgc ttc aca ggc agc gga tct ggg aca gat ttt act ctt acc 240
Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
65 70 75 80

atc agc aga gta caa gtt gaa gac ctg gca att tat tat tgt cac caa Ile Ser Arg Val Gln Val Glu Asp Leu Ala Ile Tyr Tyr Cys His Gln	288
85 90 95	
tac ctc tcc tcg tgg acg ttc ggt gga ggg acc aag ctg gag atc aaa Tyr Leu Ser Ser Trp Thr Phe Gly Gly Thr Lys Leu Glu Ile Lys	336
100 105 110	
cgt Arg	339

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Glu Asn Val Thr Met Ser Cys Lys Ser Ser Gln Ser Val Leu Tyr Ser	
20 25 30	

Ala Asn His Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln	
35 40 45	

Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val	
50 55 60	

Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr	
65 70 75 80	

Ile Ser Arg Val Gln Val Glu Asp Leu Ala Ile Tyr Tyr Cys His Gln	
85 90 95	

Tyr Leu Ser Ser Trp Thr Phe Gly Gly Thr Lys Leu Glu Ile Lys	
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Arg

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tca gtg aag atg tcc tgc aag gct tct ggc tac acc ttt act agc tac 96
Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

tgg ctg cac tgg ata aaa cag agg cct gga cag ggt ctg gaa tgg att 144
Trp Leu His Trp Ile Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45

gga tac att aat cct agg aat gat tat act gag tac aat cag aac ttc 192
Gly Tyr Ile Asn Pro Arg Asn Asp Tyr Thr Glu Tyr Asn Gln Asn Phe
50 55 60

aag gac aag gcc aca ttg act gca gac aaa tcc tcc agc aca gcc tac 240
Lys Asp Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr
65 70 75 80

atg caa ctg agc agc ctg aca tct gag gac tct gca gtc tat tac tgt 288
Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
85 90 95

gca aga agg gat att act acg ttc tac tgg ggc caa ggc acc act ctc 336
Ala Arg Arg Asp Ile Thr Thr Phe Tyr Trp Gly Gln Gly Thr Thr Leu
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Thr Val Ser Ser
115

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20 25 30

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35 40 45

Gly Tyr Ile Asn Pro Arg Asn Asp Tyr Thr Glu Tyr Asn Gln Asn Phe
50 55 60

Lys Asp Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr
65 70 75 80

Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Arg Asp Ile Thr Thr Phe Tyr Trp Gly Gln Gly Thr Thr Leu
100 105 110

Thr Val Ser Ser
115

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gat agg gtc act atg agc tgt aag tcc agt caa agt gtt tta tac agt 96
Asp Arg Val Thr Met Ser Cys Lys Ser Ser Gln Ser Val Leu Tyr Ser
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gca aat cac aag aac tac ttg gcc tgg tac cag cag aaa cca ggg aaa 144
Ala Asn His Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys
35 40 45

gca cct aaa ctg ctg atc tac tgg gca tcc act agg gaa tct ggt gtc 192
Ala Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60

cct tcg cga ttc tct ggc agc gga tct ggg aca gat ttt act ttc acc	240
Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr	
65 70 75 80	
atc agc tct ctt caa cca gaa gac att gca aca tat tat tgt cac caa	288
Ile Ser Ser Leu Gln Pro Glu Asp Ile Ala Thr Tyr Tyr Cys His Gln	
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tac ctc tcc tcg tgg acg ttc ggt gga ggg acc aag gtg cag atc aaa	336
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Asp Arg Val Thr Met Ser Cys Lys Ser Ser Gln Ser Val Leu Tyr Ser	
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Ala Asn His Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys	
35 40 45	

Ala Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val	
50 55 60	

Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr	
65 70 75 80	

Ile Ser Ser Leu Gln Pro Glu Asp Ile Ala Thr Tyr Tyr Cys His Gln	
85 90 95	

Tyr Leu Ser Ser Trp Thr Phe Gly Gly Thr Lys Val Gln Ile Lys	
100 105 110	

Arg

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tca

gtg	aag	gtc	tcc	tgc	aag	gct	tct	ggc	tac	acc	ttt	act	agc	tac		96	
Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Thr	Phe	Thr	Ser	Tyr		
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tgg

ctg	cac	tgg	gtc	agg	cag	gca	cct	gga	cag	ggt	ctg	gaa	tgg	att		144	
Trp	Leu	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Ile		
35																45	

gga

tac	att	aat	cct	agg	aat	gat	tat	act	gag	tac	aat	cag	aac	ttc		192	
Gly	Tyr	Ile	Asn	Pro	Arg	Asn	Asp	Tyr	Thr	Glu	Tyr	Asn	Gln	Asn	Phe		
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aag

gac	aag	gcc	aca	ata	act	gca	gac	gaa	tcc	acc	aat	aca	gcc	tac		240	
Lys	Asp	Lys	Ala	Thr	Ile	Thr	Ala	Asp	Glu	Ser	Thr	Asn	Thr	Ala	Tyr		
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atg

gag	ctg	agc	agc	ctg	agg	tct	gag	gac	acg	gca	ttt	tat	ttt	tgt		288	
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85																95	

gca

aga	agg	gat	att	act	acg	ttc	tac	tgg	ggc	caa	ggc	acc	acg	gtc		336	
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acc

gtc	tcc	tcg														348	
Thr	Val	Ser	Ser														
115																	

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20 25 30

Trp Leu His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45

Gly Tyr Ile Asn Pro Arg Asn Asp Tyr Thr Glu Tyr Asn Gln Asn Phe
50 55 60

Lys Asp Lys Ala Thr Ile Thr Ala Asp Glu Ser Thr Asn Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Phe Tyr Phe Cys
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100 105 110

Thr Val Ser Ser
115

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Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr
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Ile

<210> 10
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<213> Homo sapiens

<400> 10

Pro Glu Pro Val Thr Val Ser Trp Asn Ser Ser Ala Leu Thr Ser Gly
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Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu
20 25 30

Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr
35 40 45

Ile

<210> 11

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<400> 11

Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly
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Val His Thr Phe Pro Ala Val Leu Asn Ser Ser Gly Leu Tyr Ser Leu
20 25 30

Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr
35 40 45

Ile

<210> 12

<211> 49

<212> PRT

<213> Homo sapiens

<400> 12

Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly
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Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Asn
20 25 30

Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr
35 40 45

Ile

<210> 13
<211> 49
<212> PRT
<213> Homo sapiens

<400> 13

Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly
1 5 10 15

Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu
20 25 30

Ser Ser Val Val Thr Val Pro Asn Ser Ser Leu Gly Thr Gln Thr Tyr
35 40 45

Ile

<210> 14
<211> 49
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<213> Homo sapiens

<400> 14

Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly
1 5 10 15

Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu
20 25 30

Ser Ser Val Val Thr Val Pro Ser Ser Ser Asn Gly Thr Gln Thr Tyr
35 40 45

Ile

<210> 15
<211> 53
<212> PRT
<213> Homo sapiens

<400> 15

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
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Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
20 25 30

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
35 40 45

His Lys Val Tyr Ala
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<400> 16

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Ser Gln Ser
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Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
20 25 30

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
35 40 45

His Lys Val Tyr Ala
50

<210> 17
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<213> Homo sapiens

<400> 17

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
1 5 10 15

Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
20 25 30

Tyr Ser Leu Ser Ser Thr Leu Asn Leu Ser Lys Ala Asp Tyr Glu Lys
35 40 45

His Lys Val Tyr Ala
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<210> 18
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<213> Homo sapiens

<400> 18

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
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Gly Asn Ser Asn Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
20 25 30

Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
35 40 45

His Lys Val Tyr Ala
50

<210> 19
<211> 53
<212> PRT
<213> Homo sapiens

<400> 19

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
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Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
20 25 30

Tyr Asn Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
35 40 45

His Lys Val Tyr Ala
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<210> 20
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<213> Homo sapiens

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20 25 30

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35 40 45

Ala Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60

Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Tyr Thr Phe Thr
65 70 75 80

Ile Ser Ser Leu Gln Pro Glu Asp Ile Ala Thr Tyr Tyr Cys His Gln
85 90 95

Tyr Leu Ser Ser Trp Thr Phe Gly Gln Gly Thr Lys Leu Gln Ile Thr
100 105 110

Arg

<210> 21
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Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
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Trp Leu His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45

Gly Tyr Ile Asn Pro Arg Asn Asp Tyr Thr Glu Tyr Asn Gln Asn Phe
50 55 60

Lys Asp Lys Ala Thr Ile Thr Ala Asp Glu Ser Thr Asn Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Phe Tyr Phe Cys
85 90 95

Ala Arg Arg Asp Ile Thr Thr Phe Tyr Trp Gly Gln Gly Thr Thr Val
100 105 110

Thr Val Ser Ser
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tgaccaggatg cagccagtag ctagtaaagg ttagccaga agccttgcag gagaccttca 120
ctgatgaccc aggtttcttg acttcagcc 149

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<211> 134
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<400> 23
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ctgctcagct ccatgttaggc tgtattggtg gattcgtctg cagttattgt gccttgc 120
ttgaagttct gatt 134

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<400> 24
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<210> 25
<211> 33
<212> DNA
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<400> 25
aagtggatcc tataatcatt cctaggatta atg 33

<210> 26
<211> 49
<212> DNA
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<400> 26
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<210> 27
<211> 44
<212> DNA
<213> Artificial Sequence

<220>
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<400> 27
ggagacggtg accgtggtgc cttggccca gtagaacgta gtaa 44

<210> 28
<211> 150
<212> DNA
<213> Artificial Sequence

<220>
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<400> 28
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agtgacccta tctccaacag atgcgctcag 150

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<212> DNA
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<400> 29
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<210> 30
<211> 45
<212> DNA
<213> Artificial Sequence

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<400> 30
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<210> 31
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<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic oligonucleotide

<400> 31
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c 121

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<212> DNA
<213> Artificial Sequence

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<400> 32
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<210> 33
<211> 33
<212> DNA
<213> Artificial Sequence

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<210> 34
<211> 34
<212> DNA
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<220>
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<400> 34
ccaatcgggt aattcgaatg agagtgtcac agag 34

<210> 35
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
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<210> 36
<211> 31
<212> DNA
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<220>
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<400> 36
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<210> 37
<211> 31
<212> DNA
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31

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<212> DNA
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<220>
<223> Primer

<400> 38
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34

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<211> 33
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<400> 39
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33

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<220>
<223> Primer

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<220>
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<210> 43
<211> 37
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<220>
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<400> 43
gccctccagc agcaacggta cccagaccta catctgc 37

<210> 44
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 44
acggtatcga tatgcatgat atcgaatt 28

<210> 45
<211> 33
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<220>
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33

<210> 46
<211> 33
<212> DNA
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<220>
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33

<210> 47
<211> 33
<212> DNA
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<220>
<223> Primer

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33